

AMENDMENTS TO THE CLAIMS

Claims 1-15 (canceled)

Claim 16 (new): A gas mixture comprising carbon dioxide in a weight percentage less than or equal to 50% and a hydrofluorocarbon mixture in a weight percentage of at least 50%, said hydrofluorocarbon mixture consisting of at least one of a pentafluoroethane HFC 125, trifluoroethane HFC 143 A, and tetrafluoroethane HFC 124 A.

Claim 17 (new): The gas mixture of claim 16, wherein said hydrofluorocarbon mixture comprises 44% by weight of pentafluoroethane HFC 125, 52% by weight of trifluoroethane HFC 143A, and 4% by weight of tetrafluoroethane HFC 134A.

Claim 18 (new): A method of minimizing heat retention in a gas within a tire rotating on a surface, the method comprising:

providing a tire, said tire mounted on a metal rim;

inflating the tire with a gas mixture comprising carbon dioxide in a weight percentage less than or equal to 50% and a hydrofluorocarbon mixture in a weight percentage of at least 50%, said hydrofluorocarbon mixture consisting of at least one of a pentafluoroethane HFC 125, trifluoroethane HFC 143 A, and tetrafluoroethane HFC 124 A; and

rotating said tire under a load on the surface.

Claim 19 (new): The gas mixture of claim 18, wherein said hydrofluorocarbon mixture comprises 44% by weight of pentafluoroethane HFC 125, 52% by weight of trifluoroethane HFC 143A, and 4% by weight of tetrafluoroethane HFC 134A.